**KCA Laboratories**
232 North Plaza Drive
Nicholasville, KY 40356

+1-833-KCA-LABS
https://kcalabs.com
KDA Lic.# P_0058

# Certificate of Analysis



## BSCBD-K-061022

Sample ID: SA-220803-10956
Batch:
Type: In-Process Materials
Matrix: Concentrate - Distillate
Unit Mass (g):

Received: 06/13/2022
Completed: 06/21/2022

**Client**
CannaClear LLC
110 Barbour St
Barbourville, KY 40906
USA

## Summary

| Test | Date Tested | Status |
|---|---|---|
| Cannabinoids | 06/21/2022 | Tested |
| Heavy Metals | 06/16/2022 | Tested |
| Pesticides | 06/15/2022 | Tested |
| Residual Solvents | 06/20/2022 | Tested |

| ND | 96.2 % | 99.9 % | Not Tested | Not Tested | Yes |
|---|---|---|---|---|---|
| Total Δ9-THC | CBD | Total Cannabinoids | Moisture Content | Foreign Matter | Internal Standard Normalization |

## Cannabinoids by HPLC-PDA, LC-MS/MS, and/or GC-MS/MS

| Analyte | LOD (%) | LOQ (%) | Result (%) | Result (mg/g) |
|---|---|---|---|---|
| CBC | 0.0095 | 0.0284 | ND | ND |
| CBCA | 0.0181 | 0.0543 | ND | ND |
| CBCV | 0.006 | 0.018 | ND | ND |
| CBD | 0.0081 | 0.0242 | 96.2 | 962 |
| CBDA | 0.0043 | 0.013 | ND | ND |
| CBDV | 0.0061 | 0.0182 | 0.867 | 8.67 |
| CBDVA | 0.0021 | 0.0063 | ND | ND |
| CBG | 0.0057 | 0.0172 | 2.84 | 28.4 |
| CBGA | 0.0049 | 0.0147 | ND | ND |
| CBL | 0.0112 | 0.0335 | ND | ND |
| CBLA | 0.0124 | 0.0371 | ND | ND |
| CBN | 0.0056 | 0.0169 | ND | ND |
| CBNA | 0.006 | 0.0181 | ND | ND |
| CBT | 0.018 | 0.054 | ND | ND |
| Δ8-THC | 0.0104 | 0.0312 | ND | ND |
| Δ9-THC | 0.0076 | 0.0227 | ND | ND |
| Δ9-THCA | 0.0084 | 0.0251 | ND | ND |
| Δ9-THCV | 0.0069 | 0.0206 | ND | ND |
| Δ9-THCVA | 0.0062 | 0.0186 | ND | ND |
| Δ9-cis-THC | 0.0099 | 0.03 | ND | ND |
| **Total Δ9-THC** | | | **ND** | **ND** |
| **Total CBD** | | | **96.2** | **962** |
| **Total** | | | **99.9** | **999** |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA * 0.877 + Δ9-THC; Total CBD = CBDA * 0.877 + CBD;

Generated By: Ryan Bellone
Commercial Director
Date: 08/03/2022

Tested By: Jared Burkhart
Technical Manager
Date: 06/21/2022

ISO/IEC 17025:2017 Accredited
Accreditation #108651

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## Heavy Metals by ICP-MS

| Analyte | LOD (ppb) | LOQ (ppb) | Result (ppb) |
|---|---|---|---|
| Arsenic | 2 | 20 | ND |
| Cadmium | 1 | 20 | ND |
| Lead | 2 | 20 | ND |
| Mercury | 12 | 50 | ND |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone
Commercial Director
Date: 08/03/2022

Tested By: Nicholas Howard
Scientist
Date: 06/16/2022

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## Pesticides by LC-MS/MS and GC-MS/MS

| Analyte | LOD (ppb) | LOQ (ppb) | Result (ppb) | Analyte | LOD (ppb) | LOQ (ppb) | Result (ppb) |
|---|---|---|---|---|---|---|---|
| Acephate | 30 | 100 | ND | Hexythiazox | 30 | 100 | ND |
| Acetamiprid | 30 | 100 | ND | Imazalil | 30 | 100 | ND |
| Aldicarb | 30 | 100 | ND | Imidacloprid | 30 | 100 | ND |
| Azoxystrobin | 30 | 100 | ND | Kresoxim methyl | 30 | 100 | ND |
| Bifenazate | 30 | 100 | ND | Malathion | 30 | 100 | ND |
| Bifenthrin | 30 | 100 | ND | Metalaxyl | 30 | 100 | ND |
| Boscalid | 30 | 100 | ND | Methiocarb | 30 | 100 | ND |
| Carbaryl | 30 | 100 | ND | Methomyl | 30 | 100 | ND |
| Carbofuran | 30 | 100 | ND | Mevinphos | 30 | 100 | ND |
| Chloranthraniliprole | 30 | 100 | ND | Myclobutanil | 30 | 100 | ND |
| Chlorfenapyr | 30 | 100 | ND | Naled | 30 | 100 | ND |
| Chlorpyrifos | 30 | 100 | ND | Oxamyl | 30 | 100 | ND |
| Clofentezine | 30 | 100 | ND | Paclobutrazol | 30 | 100 | ND |
| Coumaphos | 30 | 100 | ND | Permethrin | 30 | 100 | ND |
| Daminozide | 30 | 100 | ND | Phosmet | 30 | 100 | ND |
| Diazinon | 30 | 100 | ND | Piperonyl Butoxide | 30 | 100 | ND |
| Dichlorvos | 30 | 100 | ND | Prallethrin | 30 | 100 | ND |
| Dimethoate | 30 | 100 | ND | Propiconazole | 30 | 100 | ND |
| Dimethomorph | 30 | 100 | ND | Propoxur | 30 | 100 | ND |
| Ethoprophos | 30 | 100 | ND | Pyrethrins | 30 | 100 | ND |
| Etofenprox | 30 | 100 | ND | Spinetoram | 30 | 100 | ND |
| Etoxazole | 30 | 100 | ND | Spinosad | 30 | 100 | ND |
| Fenhexamid | 30 | 100 | ND | Spiromesifen | 30 | 100 | ND |
| Fenoxycarb | 30 | 100 | ND | Spirotetramat | 30 | 100 | ND |
| Fenpyroximate | 30 | 100 | ND | Spiroxamine | 30 | 100 | ND |
| Fipronil | 30 | 100 | ND | Tebuconazole | 30 | 100 | ND |
| Flonicamid | 30 | 100 | ND | Thiacloprid | 30 | 100 | ND |
| Fludioxonil | 30 | 100 | ND | Thiamethoxam | 30 | 100 | ND |
| | | | | Trifloxystrobin | 30 | 100 | ND |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone
Commercial Director
Date: 08/03/2022

Tested By: Jared Burkhart
Technical Manager
Date: 06/15/2022

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## Residual Solvents by HS-GC-MS/MS

| Analyte | LOD (ppm) | LOQ (ppm) | Result (ppm) | Analyte | LOD (ppm) | LOQ (ppm) | Result (ppm) |
|---|---|---|---|---|---|---|---|
| Acetone | 167 | 500 | ND | Ethylene Glycol | 21 | 62 | ND |
| Acetonitrile | 14 | 41 | ND | Ethylene Oxide | 0.5 | 1 | ND |
| Benzene | 0.5 | 1 | ND | Heptane | 167 | 500 | ND |
| Butane | 167 | 500 | ND | n-Hexane | 10 | 29 | ND |
| 1-Butanol | 167 | 500 | ND | Isobutane | 167 | 500 | ND |
| 2-Butanol | 167 | 500 | ND | Isopropyl Acetate | 167 | 500 | ND |
| 2-Butanone | 167 | 500 | ND | Isopropyl Alcohol | 167 | 500 | ND |
| Chloroform | 2 | 6 | ND | Isopropylbenzene | 167 | 500 | ND |
| Cyclohexane | 129 | 388 | ND | Methanol | 100 | 300 | ND |
| 1,2-Dichloroethane | 0.5 | 1 | ND | 2-Methylbutane | 10 | 29 | ND |
| 1,2-Dimethoxyethane | 4 | 10 | ND | Methylene Chloride | 20 | 60 | ND |
| Dimethyl Sulfoxide | 167 | 500 | ND | 2-Methylpentane | 10 | 29 | ND |
| N,N-Dimethylacetamide | 37 | 109 | ND | 3-Methylpentane | 10 | 29 | ND |
| 2,2-Dimethylbutane | 10 | 29 | ND | n-Pentane | 167 | 500 | ND |
| 2,3-Dimethylbutane | 10 | 29 | ND | 1-Pentanol | 167 | 500 | ND |
| N,N-Dimethylformamide | 30 | 88 | ND | n-Propane | 167 | 500 | ND |
| 2,2-Dimethylpropane | 167 | 500 | ND | 1-Propanol | 167 | 500 | ND |
| 1,4-Dioxane | 13 | 38 | ND | Pyridine | 7 | 20 | ND |
| Ethanol | 167 | 500 | ND | Tetrahydrofuran | 24 | 72 | ND |
| 2-Ethoxyethanol | 6 | 16 | ND | Toluene | 30 | 89 | ND |
| Ethyl Acetate | 167 | 500 | ND | Trichloroethylene | 3 | 8 | ND |
| Ethyl Ether | 167 | 500 | ND | Tetramethylene Sulfone | 6 | 16 | ND |
| Ethylbenzene | 3 | 7 | ND | Xylenes (o-, m-, and p-) | 73 | 217 | ND |

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Generated By: Ryan Bellone
Commercial Director
Date: 08/03/2022

Tested By: Scott Caudill
Senior Scientist
Date: 06/20/2022

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# Reporting Limit Appendix

### Heavy Metals - Colorado CDPHE

| Analyte | Limit (ppb) | Analyte | Limit (ppb) |
|---|---|---|---|
| Arsenic | 1500 | Lead | 500 |
| Cadmium | 500 | Mercury | 1500 |

### Residual Solvents - USP 467

| Analyte | Limit (ppm) | Analyte | Limit (ppm) |
|---|---|---|---|
| Acetone | 5000 | Ethylene Glycol | 620 |
| Acetonitrile | 410 | Ethylene Oxide | 1 |
| Benzene | 2 | Heptane | 5000 |
| Butane | 5000 | n-Hexane | 290 |
| 1-Butanol | 5000 | Isobutane | 5000 |
| 2-Butanol | 5000 | Isopropyl Acetate | 5000 |
| 2-Butanone | 5000 | Isopropyl Alcohol | 5000 |
| Chloroform | 60 | Isopropylbenzene | 5000 |
| Cyclohexane | 3880 | Methanol | 3000 |
| 1,2-Dichloroethane | 5 | 2-Methylbutane | 290 |
| 1,2-Dimethoxyethane | 100 | Methylene Chloride | 600 |
| Dimethyl Sulfoxide | 5000 | 2-Methylpentane | 290 |
| N,N-Dimethylacetamide | 1090 | 3-Methylpentane | 290 |
| 2,2-Dimethylbutane | 290 | n-Pentane | 5000 |
| 2,3-Dimethylbutane | 290 | 1-Pentanol | 5000 |
| N,N-Dimethylformamide | 880 | n-Propane | 5000 |
| 2,2-Dimethylpropane | 5000 | 1-Propanol | 5000 |
| 1,4-Dioxane | 380 | Pyridine | 200 |
| Ethanol | 5000 | Tetrahydrofuran | 720 |
| 2-Ethoxyethanol | 160 | Toluene | 890 |
| Ethyl Acetate | 5000 | Trichloroethylene | 80 |
| Ethyl Ether | 5000 | Tetramethylene Sulfone | 160 |
| Ethylbenzene | 70 | Xylenes (o-, m-, and p-) | 2170 |

### Pesticides - CA DCC

| Analyte | Limit (ppb) | Analyte | Limit (ppb) |
|---|---|---|---|
| Acephate | 5000 | Hexythiazox | 2000 |
| Acetamiprid | 5000 | Imazalil | 30 |
| Aldicarb | 30 | Imidacloprid | 3000 |
| Azoxystrobin | 40000 | Kresoxim methyl | 1000 |
| Bifenazate | 5000 | Malathion | 5000 |
| Bifenthrin | 500 | Metalaxyl | 15000 |
| Boscalid | 10000 | Methiocarb | 30 |
| Carbaryl | 500 | Methomyl | 100 |
| Carbofuran | 30 | Mevinphos | 30 |

### Pesticides - CA DCC

| Analyte | Limit (ppb) | Analyte | Limit (ppb) |
|---|---|---|---|
| Chloranthraniliprole | 40000 | Myclobutanil | 9000 |
| Chlorfenapyr | 30 | Naled | 500 |
| Chlorpyrifos | 30 | Oxamyl | 200 |
| Clofentezine | 500 | Paclobutrazol | 30 |
| Coumaphos | 30 | Permethrin | 20000 |
| Daminozide | 30 | Phosmet | 200 |
| Diazinon | 200 | Piperonyl Butoxide | 8000 |
| Dichlorvos | 30 | Prallethrin | 400 |
| Dimethoate | 30 | Propiconazole | 20000 |
| Dimethomorph | 20000 | Propoxur | 30 |
| Ethoprophos | 30 | Pyrethrins | 1000 |
| Etofenprox | 30 | Spinetoram | 3000 |
| Etoxazole | 1500 | Spinosad | 3000 |
| Fenhexamid | 10000 | Spiromesifen | 12000 |
| Fenoxycarb | 30 | Spirotetramat | 13000 |
| Fenpyroximate | 2000 | Spiroxamine | 30 |
| Fipronil | 30 | Tebuconazole | 2000 |
| Flonicamid | 2000 | Thiacloprid | 30 |
| Fludioxonil | 30000 | Thiamethoxam | 4500 |